

CLAIMS

What is claimed is:

1. A method for detecting deviations in the surface of a document comprising:
2. scanning the document to create an image of the document;
3. identifying at least one edge of the document by recognizing surface deviations in
4. the image.
1. 2. The method of Claim 1 further comprising discarding portions of the image that
2. exist opposite to the identified edge of the document image.
1. 3. The method of Claim 2 further comprising presenting the non-discarded portions
2. of the image.
1. 4. The method of Claim 1 wherein the document is scanned by infrared light.
1. 5. The method of Claim 1 which further comprises isolating the angle of identified
2. edge.
1. 6. The method of Claim 5 which further comprises reducing the angle of the edge by
2. rotating the image.
1. 7. The method of Claim 1 further comprising illuminating the document with a
2. transparency adapter.

1 8. The method of Claim 1, further comprising inserting the document into a slide
2 adapter prior to scanning.

1 9. The method of Claim 8, further comprising discarding the portions of the image
2 associated with the image of the slide adapter.

1 10. The method of Claim 1, wherein the document is scanned by a plurality of light
2 sources.

1 11. The method of Claim 10, wherein analyzing the information to recognize the
2 deviations in the surface of the document that represent at least one edge of the document
3 is accomplished by recognizing the shadows created by each light source and identifying
4 shadows that represent edges.

1 12. The method of Claim 11, wherein analyzing the information further comprises
2 isolating the angle of edge.

1 13. The method of Claim 3, further comprising rotating the image to reduce the angle
2 of the edge after isolating the angle of the deviation.

- 1 14. A surface deviation detector comprising:
2 a scanner having a platen for the placement of a document;
3 at least one light source;
4 at least one sensor sensing light related to at least one surface deviation associated
5 with an edge of the document.
- 1 15. The detector of Claim 14 wherein the light source is capable of projecting infrared
2 light.
- 1 16. The detector of Claim 14 further comprising a slide adapter.
- 1 17. The detector of Claim 14 wherein the light source is capable of creating shadows
2 that are detected by the sensor.
- 1 18. The detector of Claim 14 further comprising a processor for creating an image of
2 the document capable of automatically rotating the image of the document.
- 1 19. The detector of Claim 14 further comprising a processor for creating an image of
2 the document capable of eliminating image not associated with the image.
- 1 20. The detector of Claim 14 further comprising a processor for creating an image of
2 the document capable of truncating information not associated with the document image.
- 1 21. The detector of Claim 14 comprising two light sources.

- 1 22. The detector of Claim 14 wherein the scanner automatically initiates a high
2 resolution scan.
- 3 23. The detector of Claim 22 wherein the scan can be manually overridden.
- 1 24. A scanner system comprising:
2 at least one light source operable to illuminate a document having edges; and
3 at least one sensor operable to detect the illumination from the document and the
4 edges.
- 1 25. A scanner system comprising:
2 a low resolution scan system operable to detect edges associated with a document;
3 and
4 a high resolution scan system operable to perform a scan of an area defined by the
5 edges detected by the low resolution scan system.